

SAF-RC-040
300 Area D&D Waste Characterization
Sampling - Other Solid
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Renee Nielson L1-01

KW 6/26/07
INITIAL/DATE

COMMENTS:

SDG 07-A-3323

SAF-RC-040

Rad only

X Chem only

Rad & Chem

X Complete

Partial

Sample Location/Waste Site: H0-64-6375

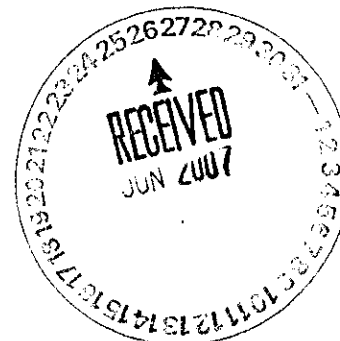
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6/26/07
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SUBMITTED TO:

Joan Kessner
Washington Closure Hanford
2620 Fermi Avenue, MSIN H4-21
Richland, WA 99354



REFERENCE DATA:

Client Sample No.:	J155Y9 through J15606
P.O. No.:	Not Available
Sample Location:	300 Area
Sample Type:	Bulk
Method Reference:	EPA-600/R-93/116
DCL Set ID No.:	07-A-3323
DCL Sample ID No.:	07-18928 through 07-18935
Sample Receipt Date:	6/20/07
Analysis Date:	6/26/07

We certify that the following samples were prepared and analyzed by Polarized Light Microscopy for asbestos and other fibrous constituents using EPA-600/R-93/116. The samples were acceptable upon receipt except where noted. The samples were examined under a stereomicroscope in a laboratory fume hood for general composition and phase separation. If needed, portions of the sample were removed and ground with a mortar and pestle before being mounted on a glass microscope slide. Mountings of representative portions of the material are prepared in one or more appropriate refractive index liquids (1.550, 1.605, 1.680) and examined by Polarized Light Microscopy*. Estimates of concentration are made on an area basis. The results of the analysis apply only to the materials analyzed and are summarized on the attached bulk asbestos analysis data sheets. DataChem Laboratories will dispose of all bulk samples after 60 days unless other arrangements are made.


Shawn Smythe
Analyst


Anna Marie Ristich
Reviewer

*Floor tiles, decorative paints, joint compounds, and cement materials require additional treatment in order to evaluate the concentration of small asbestos fibers bound in the material. Some samples may contain fibers that are not visible by PLM and can only be detected by electron microscopy techniques. Floor tiles are analyzed as homogeneous materials if insufficient mastic is present or if phases have been cross contaminated.

DataChem Laboratories NVLAP Lab ID: 101917. Laboratory accreditation by the National Institute of Standards and Technology does not in any way constitute approval or endorsement by NVLAP, NIST, or any agency of the federal government..

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6/26/07

**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**

Client: Washington Closure Hanford

Location: 300 Area


Set ID: 07-A-3323

Client Sample ID:	J155Y9	J15600	J15601	J15602	J15603
DCL Sample ID:	07-18928	07-18929	07-18930	07-18931	07-18932
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Layered	Layered	Layered	Layered	Homog.
	Inseparable	Inseparable	Inseparable	Inseparable	
Color:	Grey	Grey	Grey	Grey/Tan	Tan
Texture:	Flex/Fbrs	Flex/Fbrs	Flex/Fbrs	Crmby/Fbrs	Fibrous
Description:	Linoleum	Linoleum	Linoleum	Drywall	Ceiling Tile
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:					
% Amosite:					
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	ND	ND	ND	ND	ND
Other Materials					
% Cellulose:				>10 ≤ 20	>80 ≤ 90
% Fiberglass:					
% Other Fibers:	>20 ≤ 30	>20 ≤ 30	>20 ≤ 30		
% Resin/Binder:	>5 ≤ 10	>5 ≤ 10	>5 ≤ 10		
% Non Fibrous:	>50 ≤ 60	>50 ≤ 60	>50 ≤ 60	>70 ≤ 80	>5 ≤ 10

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


 Shawn Smythe
 Microscopist

All values are in area percent by visual estimate. The Federal Register Vol. 55 No. 224 Tuesday Nov. 20 1990 Rules and Regulations states "... If the asbestos content is estimated to be less than 10% by a method other than point counting,... (the analysis) be repeated using the point counting technique by PLM." Any of the above samples can be reanalyzed by point counting at the client's request. Wherever possible, separate phases are analyzed and reported individually.

6/26/07

**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**


Client: Washington Closure Hanford
Location: 300 Area
Set ID: 07-A-3323

Client Sample ID:	J15604	J15605	J15606
DCL Sample ID:	07-18933	07-18934	07-18935
Macroscopic Examination			
Accepted/Rejected:	Accepted	Accepted	Accepted
Homogeneity:	Layered	Layered	Homog.
	Inseparable	Inseparable	
Color:	Grey	Grey/Tan	Tan
Texture:	Flex/Fbrs	Crmby/Fbrs	Fibrous
Description:	Linoleum	Drywall	Ceiling Tile
Analysis:	PLM	PLM	PLM
Asbestiform Minerals			
% Chrysotile:			
% Amosite:			
% Crocidolite:			
% Tremolite - Actinolite:			
% Anthophyllite:			
% Total Asbestos:	ND	ND	ND
Other Materials			
% Cellulose:		>10 ≤ 20	>80 ≤ 90
% Fiberglass:			
% Other Fibers:	>20 ≤ 30		
% Resin/Binder:	>5 ≤ 10		
% Non Fibrous:	>50 ≤ 60	>70 ≤ 80	>5 ≤ 10

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


Shawn Smythe
Microscopist

All values are in area percent by visual estimate. The Federal Register Vol. 55 No. 224 Tuesday Nov. 20 1990 Rules and Regulations states "... If the asbestos content is estimated to be less than 10% by a method other than point counting,... (the analysis) be repeated using the point counting technique by PLM." Any of the above samples can be reanalyzed by point counting at the client's request. Wherever possible, separate phases are analyzed and reported individually.

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-310		Page 1 of 1	
Collector Mike Stankovich		Company Contact Rance Nielson		Telephone No. 430-5466		Project Coordinator KESSNER, JH		Price Code 9K Data Turnaround 7 Days	
Project Destination 300 Area D&D Waste Characterization Sampling - Other Soil		Sampling Location 110-64-6389				SAF No. RC-040			
Ice Chest No. MED FED EX BOX		Field Logbook No. EL-1518-8		COA *See below		Method of Shipment Fed Ex			
Shipped To DataChem Laboratories - Cincinnati		Office Property No. NA 64907 A070300				Bill of Lading/Air Bill No. NA 64907 See O5PC			
POSSIBLE SAMPLE HAZARDS/REMARKS Asbestos 07-A-3323 Special Handling and/or Storage					Preservation		None		
					Type of Container		P		
					No. of Container(s)		1		
					Volume		5g		
SAMPLE ANALYSIS					Admins- BULK-EPA				
Sample No.		Matrix *		Sample Date		Sample Time			
J15549		OTHER SOLID		6/12/07		0820		K 07-18928	
J15600		OTHER SOLID		↓		0825		X 18929	
C J15601		OTHER SOLID				0830		X 18930	
J15602		OTHER SOLID				0835		X 18931	
J15603		OTHER SOLID				0840		X 18932	
CHAIN OF POSSESSION					SPECIAL INSTRUCTIONS				
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		*Laboratory Analysis, Data Management, and Shipping COA - RD4MCOZFO0 *Sampling COA - 1029	
M. Stankovich		09/15		K. M. Sample		08/15			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
K. M. Sample		15/01		FED EX		6-19-07			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
K. M. Sample		6-19-07		K. M. Sample		6/20/07		Matrix * S-Soil SS-Sediment SC-Sediment SL-Sludge W-Water O-Other A-Air DS-Dryness Solids DL-Dryness Liquids TS-Tissue WH-Wipe L-Liquid V-Vegetation E-Other	
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
LABORATORY SECTION		Received By		Title		Date/Time			
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time			

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-310		Page 1 of 1			
Collector Mike Stankovich		Company Contact Renee Nielson		Telephone No. 430-5466		Project Coordinator KESSNER, JH		Price Code 9K Data Turnaround 7 Days			
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soil		Sampling Location HQ-69-6375		SAF No. RC-040							
Ice Chest No. MED FEDEX BOX		Field Labbook No. EL-1518-8		COA *See below		Method of Shipment Fed Ex					
Shipped To DataChem Laboratories - Cincinnati		Office Property No. NA 6-1907		A070300		Bill of Lading/Air Bill No. NA 6-1907 SLOSPC					
POSSIBLE SAMPLE HAZARDS/REMARKS Asbestos 3323 Special Handling and/or Storage				Preservation	None						
				Type of Container	P						
				No. of Container(s)	1						
				Volume	5g						
				Adverse-BULK-SPA							
SAMPLE ANALYSIS											
Sample No.	Matrix *	Sample Date	Sample Time								
J15604	OTHER SOLID	6/19/07	0850	X		18933					
J15605	OTHER SOLID	6/19/07	0855	X		18934					
J15606	OTHER SOLID	6/19/07	0700	X		18935					
	OTHER SOLID										
	OTHER SOLID										
CHAIN OF POSSESSION				SPECIAL INSTRUCTIONS							
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		*Laboratory Analysis, Data Management, and Shipping COA - RD4MJC02F00 *Sampling COA - Matrix * S-Sol SL-Solvent SO-Solid SL-Sludge W - Water O-Oil A-Air DS-Dryness Solids DL-Dryness Liquids T-Tissue WH-Wipe L-Liquid V-Vegetative X-Other			
M. Stankovich		6/19/07 0915		R. Nielson		6/19/07 0915					
M. Stankovich		6/19/07 1500		FED EX		6/19/07 1029					
M. Stankovich		6/19/07 1500		NOPEL		6/20/07 1029					
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time					
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time					
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time					
LABORATORY SECTION		Received By NOPEL		Title		Date/Time 6/20/07 1029					
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time					